g number: EN 3351A								
•			Mon	olith	ic Line	ear IC		
No.3351A			LA850	<u>8500, 8501-P</u>				
SANYO			T	Tone Ringer				
Applications								
. Telephones and other	vario	us types of con	sumer equipment					
Features and Functions Adjustable OSC freque On-chip power supply ing and rotary dial " Minimum number of ext Adjustable operation Adjustable operation	contr chirp: cernal start	s". parts required voltage (LA850	0)	3 fa	lse t	rigge	er-	
Maximum Ratings at Ta=25	ЪС			un	it			
Maximum Supply Voltage V _{CC} max			30		V			
Allowable Power Dissipa	Pdĭmax	500	-					
Operating Temperature		Topr	-20 to +75					
Storage Temperature		Tstg	-55 to +150	0	С			
Operating Conditions at 1	ra=25 ⁰	с		nin	typ	max	unit	
Operating Voltage	Vopr		-		•JP	29	v	
Operation Start	Vsi	(Note 1)		17	19	21	v	
Supply Voltage		•••••		••		- •	•	
Operation Sustain	Vsus	(Note 2)	11	0.5	12		V	
Supply Voltage		-		-				
Operation Start	Isi	No load		1.4	3.3	4.2	mA	
Current Dissipation								
Operation Sustain	Isus	No load	:		1.0		mA	
Current Dissipation	_							
OSC Frequency (Note 3)	f,	C1=0.47uF,R1=	165kohms	9	10	11	Ħz	

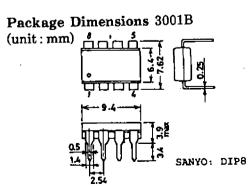
ťΓ C1=0.47uF,R1=165kohms OSC Frequency (Note 3) 9 10 11 f_{H1} f_{H2} C2=6800pF, R2=191kohms 461 512 563 Hz C2=6800pF, R2=191kohms 576 640 703 HzOutput Voltage H Level VOH $V_{OH} = V_{CC} = 24V, I_{OH} = -10mA, PIN 7 = GND$ $V_{OL} = V_{CC} = 24V, I_{OL} = 10mA, PIN 7 = 7V$ $V_{CC} = 15V, I_{CC} = 100uA$ 20.0 21.5 22.5 L Level VOL 0.7 1.0 2.0 Trigger Pin Operating 7.8 10 11.5 Voltage (LA8500)

Continued on next page.

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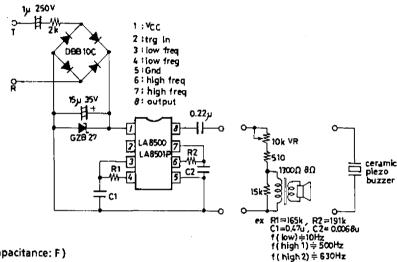
Continued from preceding page.

Note 1: Operation start supply voltage (Vsi) is the value of supply voltage required for the tone ringer to start oscillating.

Note 2: Operation sustain supply voltage (Vsus) is the value of supply voltage required for the tone ringer to maintain oscillation.

Note 3: OSC frequencies are: (1) $f_L=1/1.234 \cdot R1 \cdot C1$ (2) $f_{H1}=1/1.515 \cdot R2 \cdot C2$ (3) $f_{H2}=1.24 \cdot f_{H1}$

Sample Application Circuit



Unit (resistance: Ω , capacitance: F)

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